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QC ABSTRACT

Nameof Work:Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Jalagunte, BBMP, Bangalore.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes as per Frequency	Actual No's of testes as per Frequency	Testes
1	Materials	-	1	1	Cement Sand,
2	Slab (100mm)	1227.15 Sqm	1	1	Concrete Core Compressive Strength
3	GSB	1387.31 Cum	7	7	-
4	WMM	2291.37 Cum	-	-	-
		Gradation	23	23	-
		AIV	12	12	-
		Shape Test	12	12	-
		Atterberg Limits	23	23	-
5	DBM	609.2 Cum	-	-	-
		Quality of Binder	1	1	-
		AIV	1	1	-
		Shape Test	1	1	-
		Gradation	1	1	-
		Specific Gravity	1	1	-
		Stability of Mix	13	13	-
		Bitumen content	13	13	-
6	BC	658.95 Cum	-	-	-
		Quality of Binder	1	1	-
		AIV	1	1	-
		Shape Test	1	1	-
		Gradation	1	1	-
		Specific Gravity	1	1	-
		Stability of Mix	14	14	-
		Bitumen content	14	14	

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CIVIL AIM CONSULTANTS & ENGINEERS Bangalore

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 05.01.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	M/S **M S V Construction Company,** Contractor, Bangalore.
NAME OF THE WORK	:	Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		December - 2021
DATE OF TESTING		03.01.2022 to 05.01.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	335 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

Note:

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⇒ The results indicated above are based on the tests carried out on the samples collected at the site.

⇒ Any Query regarding the report must be reported within 30days from the date of testing.

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 05.01.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

Date of Testing : 05.01.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	89	8.90	8.90	91.1	90-100
2.36	126	12.60	21.50	78.5	75-100
1.18	182	18.20	39.70	60.3	55-90
600 Micron	165	16.50	56.20	43.8	35-59
300 Micron	256	25.60	81.80	18.2	8-30
150 Micron	138	13.80	95.60	4.4	0-10

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date : 05.01.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client :Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : M/S M S V Construction Company, Contractor, Bangalore.

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

Date of Testing : 05.01.2022

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	14	1.40	1.40	98.6	90-100
1.18	38	3.80	5.20	94.8	70-100
600 Micron	84	8.40	13.60	86.4	40-100
300 Micron	256	25.60	39.20	60.8	5-70
150 Micron	489	48.90	88.10	11.9	0-15

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date: 07.01.2022

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore**

Contractor : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

No.of Sample Tested : 03

Date of Testing : 07.01.2022

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.375	2329.10	1.64	0.961	32.85	16.73	18.07	17.37	21.71
2	50.00	84.00	0.386	2340.34	1.68	0.965	33.25	16.93	18.29	17.66	22.07
3	50.00	86.00	0.405	2398.43	1.72	0.970	31.90	16.25	17.55	17.02	21.27

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Job No: CACE/BBMP/MSV/W.No.14/2021-22 Date : 17.02.2022

GRADATION FOR GSB (Grading V)

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of work :Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

BIS Code : IS 2386 Part (1):1963
: IS 2720 part (5):1985

Date of Testing :15.02.2022 to 17.02.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	753	753	5.79	94.21	80-100
26.5	2160	2913	22.41	77.59	55-90
9.5	2090	5003	38.48	61.52	35-65
4.75	1890	6893	53.02	46.98	25-50
2.36	3690	10583	81.41	18.59	10-20
0.85	1755	12338	94.91	5.09	2-10
0.425	225	12563	96.64	3.36	0-5

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n: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

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Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	20.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

Note:

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Job No: CACE/BBMP/MSV/W.No.14/2021-22 Date : 17.02.2022

GRADATION FOR GSB (Grading V)

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : M/S M S V Construction Company, Contractor, Bangalore.

Name of work :Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

BIS Code : IS 2386 Part (1):1963
: IS 2720 part (5):1985

Date of Testing :15.02.2022 to 17.02.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	752	752	5.78	94.22	80-100
26.5	2162	2914	22.42	77.58	55-90
9.5	2085	4999	38.45	61.55	35-65
4.75	1892	6891	53.01	46.99	25-50
2.36	3692	10583	81.41	18.59	10-20
0.85	1758	12341	94.93	5.07	2-10
0.425	224	12565	96.65	3.35	0-5

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Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	20.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

Note:

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Job No: CACE/BBMP/MSV/W.No.14/2021-22 Date : 18.02.2022

GRADATION FOR GSB (Grading V)

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : M/S M S V Construction Company, Contractor, Bangalore.

Name of work :Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

BIS Code : IS 2386 Part (1):1963
: IS 2720 part (5):1985

Date of Testing : 16.02.2022 to 18.02.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	749	749	5.76	94.24	80-100
26.5	2163	2912	22.40	77.60	55-90
9.5	2086	4998	38.45	61.55	35-65
4.75	1890	6888	52.98	47.02	25-50
2.36	3691	10579	81.38	18.62	10-20
0.85	1755	12334	94.88	5.12	2-10
0.425	223	12557	96.59	3.41	0-5

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For CIVIL AIM CONSULTANTS & ENGINEERS
Prajwal
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Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	20.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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Job No: CACE/BBMP/MSV/W.No.14/2021-22 Date : 18.02.2022

GRADATION FOR GSB (Grading V)

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : M/S M S V Construction Company, Contractor, Bangalore.

Name of work :Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

BIS Code : IS 2386 Part (1):1963
: IS 2720 part (5):1985

Date of Testing : 16.02.2022 to 18.02.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	755	755	5.81	94.19	80-100
26.5	2165	2920	22.46	77.54	55-90
9.5	2090	5010	38.54	61.46	35-65
4.75	1895	6905	53.12	46.88	25-50
2.36	3695	10600	81.54	18.46	10-20
0.85	1760	12360	95.08	4.92	2-10
0.425	224	12584	96.80	3.20	0-5

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Job No: CACE/BBMP/MSV/W.No.14/2021-22 Date : 18.02.2022

GRADATION FOR GSB (Grading V)

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of work :Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

BIS Code : IS 2386 Part (1):1963
: IS 2720 part (5):1985

Date of Testing : 16.02.2022 to 18.02.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	755	755	5.81	94.19	80-100
26.5	2165	2920	22.46	77.54	55-90
9.5	2090	5010	38.54	61.46	35-65
4.75	1895	6905	53.12	46.88	25-50
2.36	3695	10600	81.54	18.46	10-20
0.85	1760	12360	95.08	4.92	2-10
0.425	224	12584	96.80	3.20	0-5

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Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	20.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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Job No: CACE/BBMP/MSV/W.No.14/2021-22 Date : 19.02.2022

GRADATION FOR GSB (Grading V)

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of work :Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

BIS Code : IS 2386 Part (1):1963
: IS 2720 part (5):1985

Date of Testing : 17.02.2022 to 19.02.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	752	752	5.78	94.22	80-100
26.5	2162	2914	22.42	77.58	55-90
9.5	2085	4999	38.45	61.55	35-65
4.75	1892	6891	53.01	46.99	25-50
2.36	3692	10583	81.41	18.59	10-20
0.85	1758	12341	94.93	5.07	2-10
0.425	224	12565	96.65	3.35	0-5

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Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	20.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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Job No: CACE/BBMP/MSV/W.No.14/2021-22 Date : 19.02.2022

GRADATION FOR GSB (Grading V)

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of work :Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

BIS Code : IS 2386 Part (1):1963
: IS 2720 part (5):1985

Date of Testing : 17.02.2022 to 19.02.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	748	748	5.75	94.25	80-100
26.5	2158	2906	22.35	77.65	55-90
9.5	2083	4989	38.38	61.62	35-65
4.75	1890	6879	52.92	47.08	25-50
2.36	3688	10567	81.28	18.72	10-20
0.85	1755	12322	94.78	5.22	2-10
0.425	223	12545	96.50	3.50	0-5

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Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	20.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

Note:

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Job No: CACE/BBMP/MSV/W.No.14/2021-22 Date : 19.02.2022

GRADATION FOR GSB (Grading V)

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of work :Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

BIS Code : IS 2386 Part (1):1963
: IS 2720 part (5):1985

Date of Testing : 17.02.2022 to 19.02.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	751	751	5.78	94.22	80-100
26.5	2161	2912	22.40	77.60	55-90
9.5	2080	4992	38.40	61.60	35-65
4.75	1898	6890	53.00	47.00	25-50
2.36	3696	10586	81.43	18.57	10-20
0.85	1757	12343	94.95	5.05	2-10
0.425	222	12565	96.65	3.35	0-5

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Job No: CACE/BBMP/MSV/W.No.14/2021-22 Date : 19.02.2022

GRADATION FOR GSB (Grading V)

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of work :Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

BIS Code : IS 2386 Part (1):1963
: IS 2720 part (5):1985

Date of Testing : 17.02.2022 to 19.02.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	751	751	5.78	94.22	80-100
26.5	2161	2912	22.40	77.60	55-90
9.5	2080	4992	38.40	61.60	35-65
4.75	1898	6890	53.00	47.00	25-50
2.36	3696	10586	81.43	18.57	10-20
0.85	1757	12343	94.95	5.05	2-10
0.425	222	12565	96.65	3.35	0-5

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Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	20.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

Note:

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date :03.03.2022

GRADATION FOR WMM

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : M/S M S V Construction Company, Contractor, Bangalore.

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing :03.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	188	188	1.9	98.1	95-100
22.4	2536	2724	27.2	72.8	60-80
11.2	2150	4874	48.7	51.3	40-60
4.75	1845	6719	67.2	32.8	25-40
2.36	1189	7908	79.1	20.9	15-30
0.600	582	8490	84.9	15.1	8-22
0.075	1232	9722	97.2	2.8	0-5

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For CIVIL AIM CONSULTANTS & ENGINEERS

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No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date :03.03.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing :03.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	181	181	1.8	98.2	95-100
22.4	2530	2711	27.1	72.9	60-80
11.2	2165	4876	48.8	51.2	40-60
4.75	1840	6716	67.2	32.8	25-40
2.36	1180	7896	79.0	21.0	15-30
0.600	626	8522	85.2	14.8	8-22
0.075	1236	9758	97.6	2.4	0-5

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GRADATION FOR WMM

Client : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Agency : M/S M S V Construction Company, Contractor, Bangalore.

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing :03.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	175	175	1.8	98.3	95-100
22.4	2537	2712	27.1	72.9	60-80
11.2	2155	4867	48.7	51.3	40-60
4.75	1851	6718	67.2	32.8	25-40
2.36	1190	7908	79.1	20.9	15-30
0.600	583	8491	84.9	15.1	8-22
0.075	1230	9721	97.2	2.8	0-5

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Agency : M/S M S V Construction Company, Contractor, Bangalore.

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing :03.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	199	199	2.0	98.0	95-100
22.4	2533	2732	27.3	72.7	60-80
11.2	2163	4895	49.0	51.1	40-60
4.75	1842	6737	67.4	32.6	25-40
2.36	1182	7919	79.2	20.8	15-30
0.600	625	8544	85.4	14.6	8-22
0.075	1230	9774	97.7	2.3	0-5

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date :03.03.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing :03.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	199	199	2.0	98.0	95-100
22.4	2533	2732	27.3	72.7	60-80
11.2	2163	4895	49.0	51.1	40-60
4.75	1842	6737	67.4	32.6	25-40
2.36	1182	7919	79.2	20.8	15-30
0.600	625	8544	85.4	14.6	8-22
0.075	1230	9774	97.7	2.3	0-5

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date :03.03.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing :03.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	192	192	1.9	98.1	95-100
22.4	2531	2723	27.2	72.8	60-80
11.2	2140	4863	48.6	51.4	40-60
4.75	1843	6706	67.1	32.9	25-40
2.36	1188	7894	78.9	21.1	15-30
0.600	580	8474	84.7	15.3	8-22
0.075	1229	9703	97.0	3.0	0-5

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date :04.03.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing :04.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	175	175	1.8	98.3	95-100
22.4	2520	2695	27.0	73.1	60-80
11.2	2152	4847	48.5	51.5	40-60
4.75	1832	6679	66.8	33.2	25-40
2.36	1185	7864	78.6	21.4	15-30
0.600	621	8485	84.9	15.2	8-22
0.075	1239	9724	97.2	2.8	0-5

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date :04.03.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing :04.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	177	177	1.8	98.2	95-100
22.4	2532	2709	27.1	72.9	60-80
11.2	2150	4859	48.6	51.4	40-60
4.75	1844	6703	67.0	33.0	25-40
2.36	1197	7900	79.0	21.0	15-30
0.600	585	8485	84.9	15.2	8-22
0.075	1225	9710	97.1	2.9	0-5

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Job No.: CACE/BBMP/MSV/W.No.14/2021-22 Date :04.03.2022

GRADATION FOR WMM

Client : **Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.**

Agency : **M/S M S V Construction Company, Contractor, Bangalore.**

Name of Work : Entrustment of work" Asphalting to roads at Manjunathanagara and Surrounding area in ward no.14 Bagalagunte, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing :04.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, gran 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	169	169	1.7	98.3	95-100
22.4	2522	2691	26.9	73.1	60-80
11.2	2163	4854	48.5	51.5	40-60
4.75	1843	6697	67.0	33.0	25-40
2.36	1175	7872	78.7	21.3	15-30
0.600	622	8494	84.9	15.1	8-22
0.075	1234	9728	97.3	2.7	0-5

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Authorised Signatory

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